

Claims

1. An optical path converting type optical coupling element characterized in that two faces approximately perpendicular to a resin molding body and a total reflecting face approximately having an angle of 45° with respect to said two faces are formed, and plural lenses are respectively integrally arranged on said two faces.

2. The optical path converting type optical coupling element according to claim 1, wherein each of said lenses is a lens for converting light incident so as to be approximately emitted from one point into parallel light.

3. The optical path converting type optical coupling element according to claim 1, wherein a spacer having a thickness approximately equal to the focal distance of said lens is integrally projected on each of said two faces.

4. The optical path converting type optical coupling element according to claim 1, wherein plural holes used for positioning at a connecting time are opened on each of said two faces.

5. The optical path converting type optical coupling element according to claim 1, wherein a hollow is formed in a portion of said resin molding body on the side

opposed to said total reflecting face.

6. The optical path converting type optical coupling element according to claim 5, wherein the inner face of said hollow is formed in parallel with said total reflecting face, and the distance from each lens to said total reflecting face along the optical axis of each lens formed on said two faces, and the distance from the inner face of said hollow to said total reflecting face are approximately equal to each other.